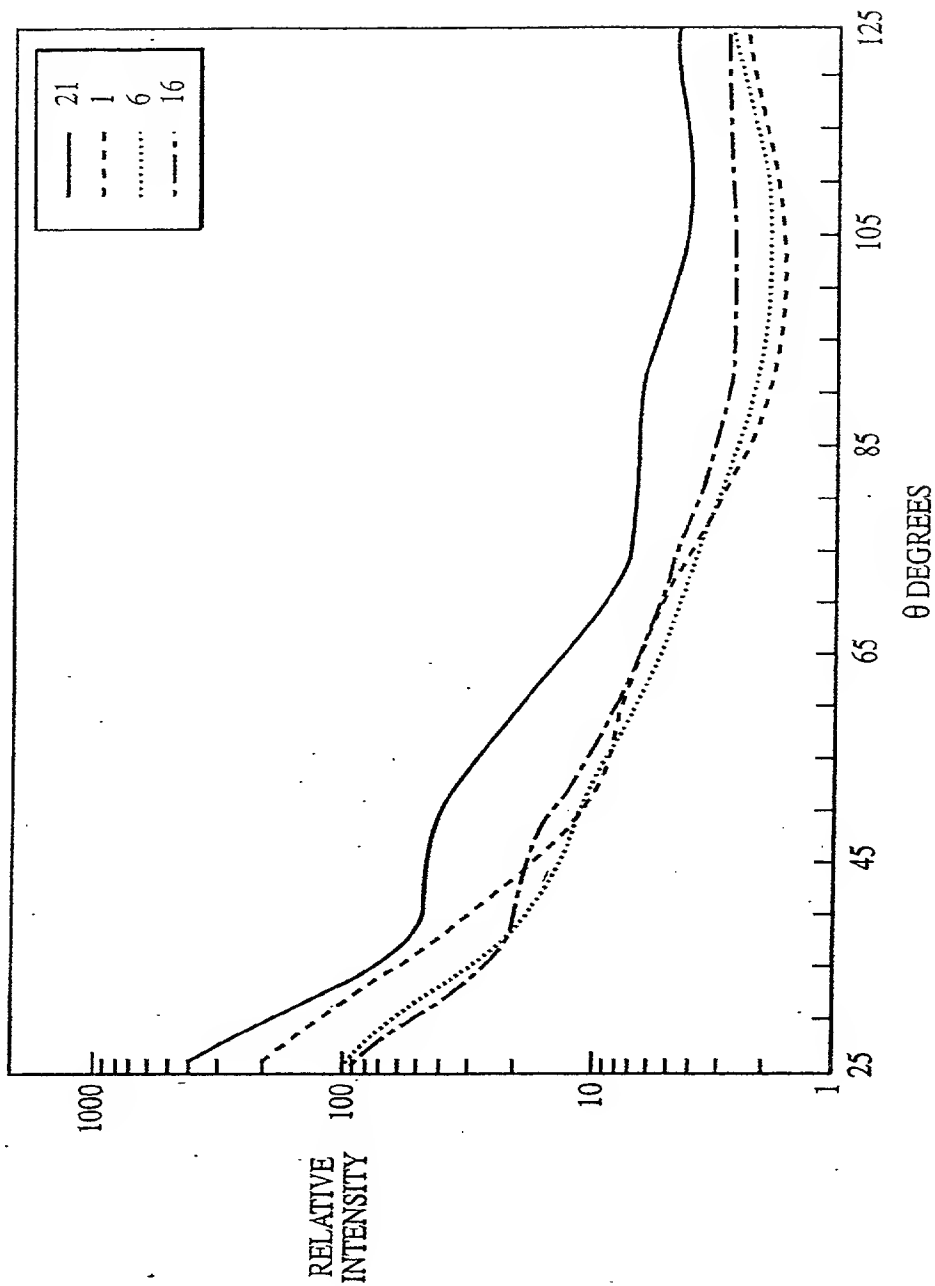


#4



**Title:** Methods, Compositions and Kits for Biological Indicator of Sterilization Inventors: Ira Cecil Folkner, et al. Appl. No.: 10/091,260 Atty Docket No. 61-2U5 Cust. No. 000570

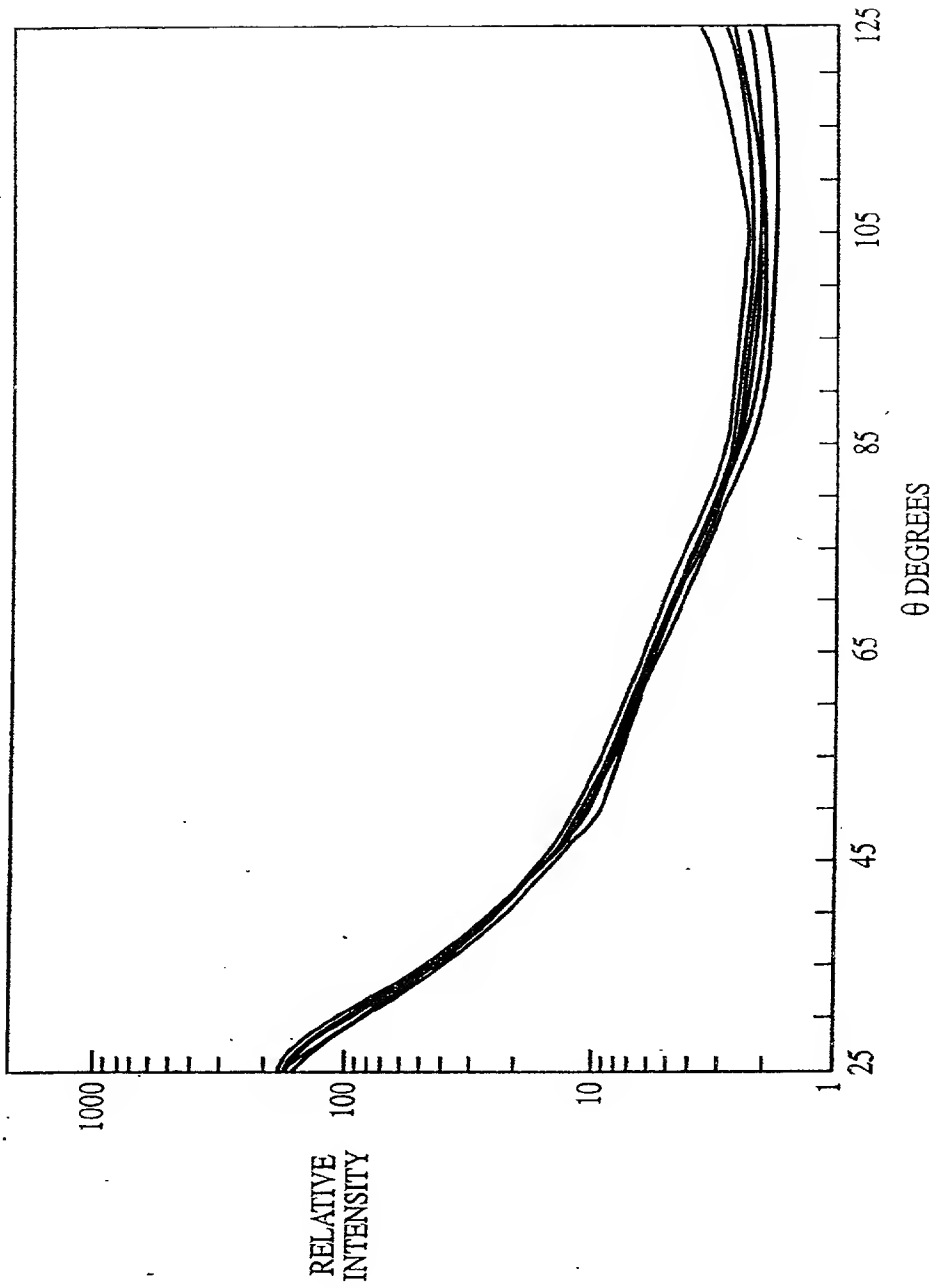


Fig. 2

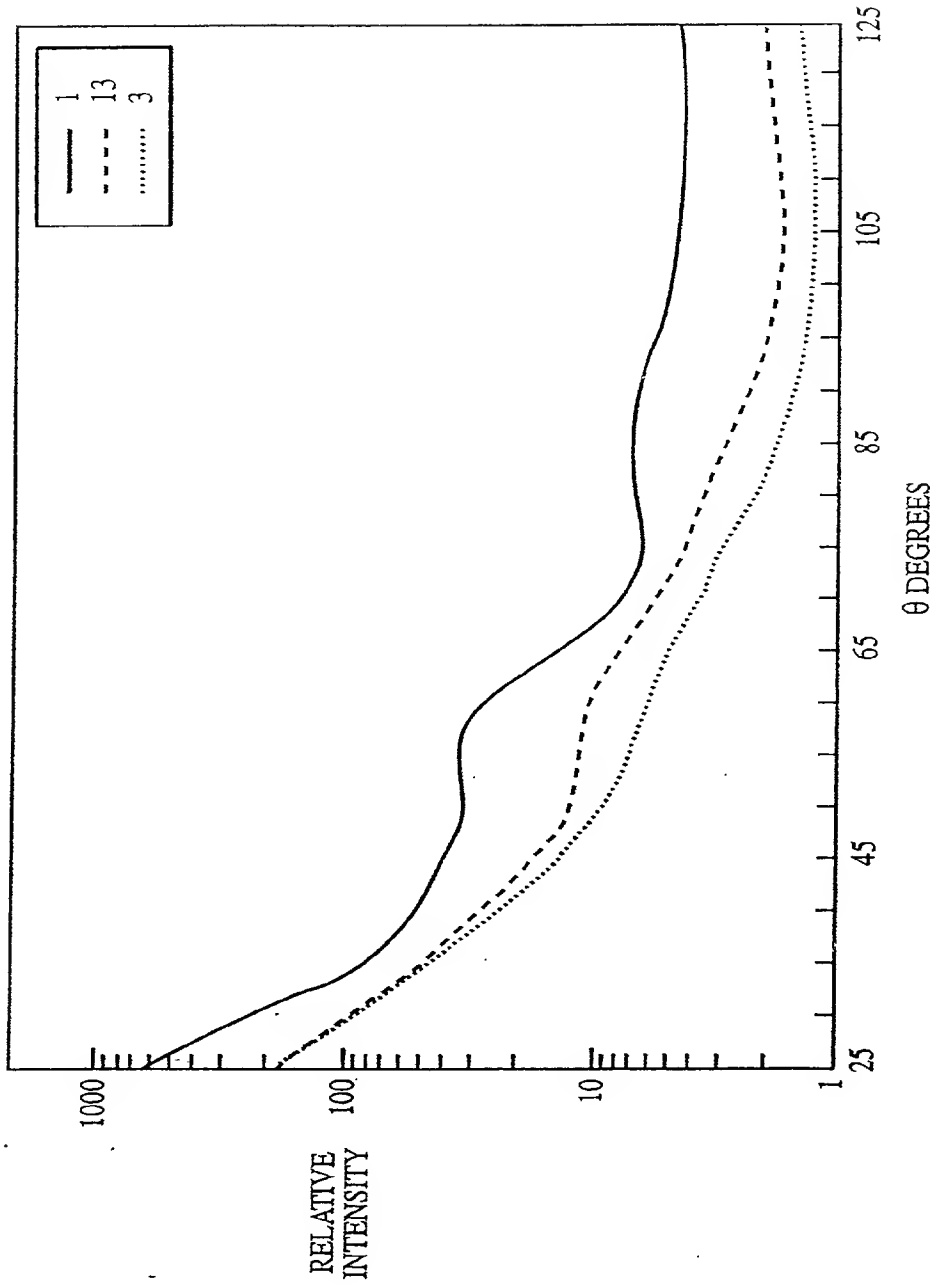
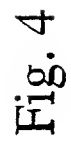


Fig. 3

20090901





Parameter	Unit	Value
$\alpha$	deg	10
$\beta$	deg	10
$\gamma$	deg	10
$\delta$	deg	10
$\epsilon$	deg	10
$\zeta$	deg	10
$\eta$	deg	10
$\theta$	deg	10
$\phi$	deg	10
$\chi$	deg	10
$\psi$	deg	10
$\omega$	deg	10
$\nu$	deg	10
$\mu$	deg	10
$\lambda$	deg	10
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$\theta$	deg	10
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$\iota$	deg	10
$\theta$	deg	10
$\phi$	deg	10
$\chi$	deg	10
$\psi$	deg	10
$\omega$	deg	10
$\nu$		





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Title: Methods, Compositions and Kits for Biological  
Indicator of Sterilization Inventors: Ira Cecil  
Felkner, et al. Appln. No.: 10/091,260  
Atty Docket No. 61-2U5 Cust. No. 000570

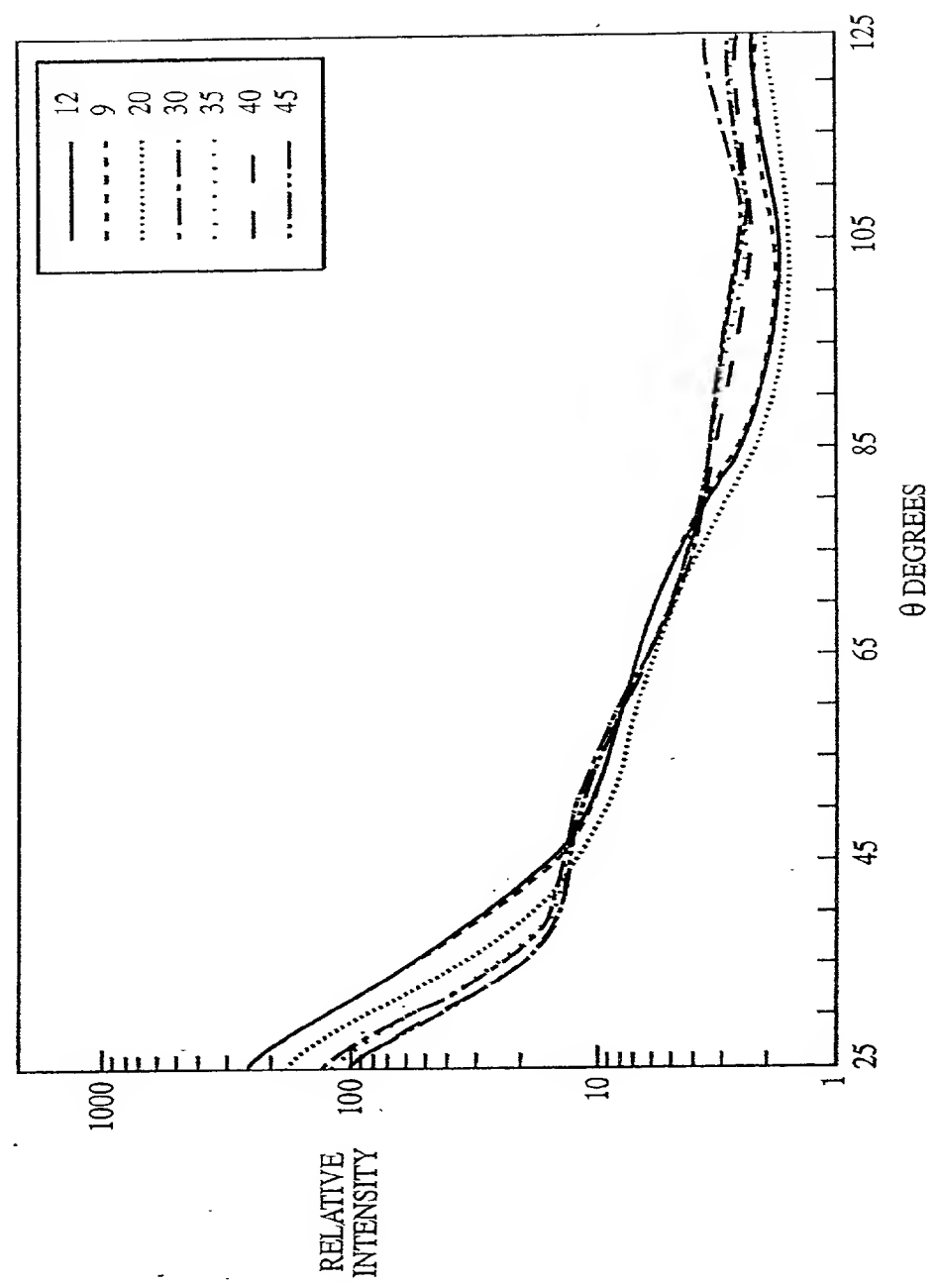


Fig. 5

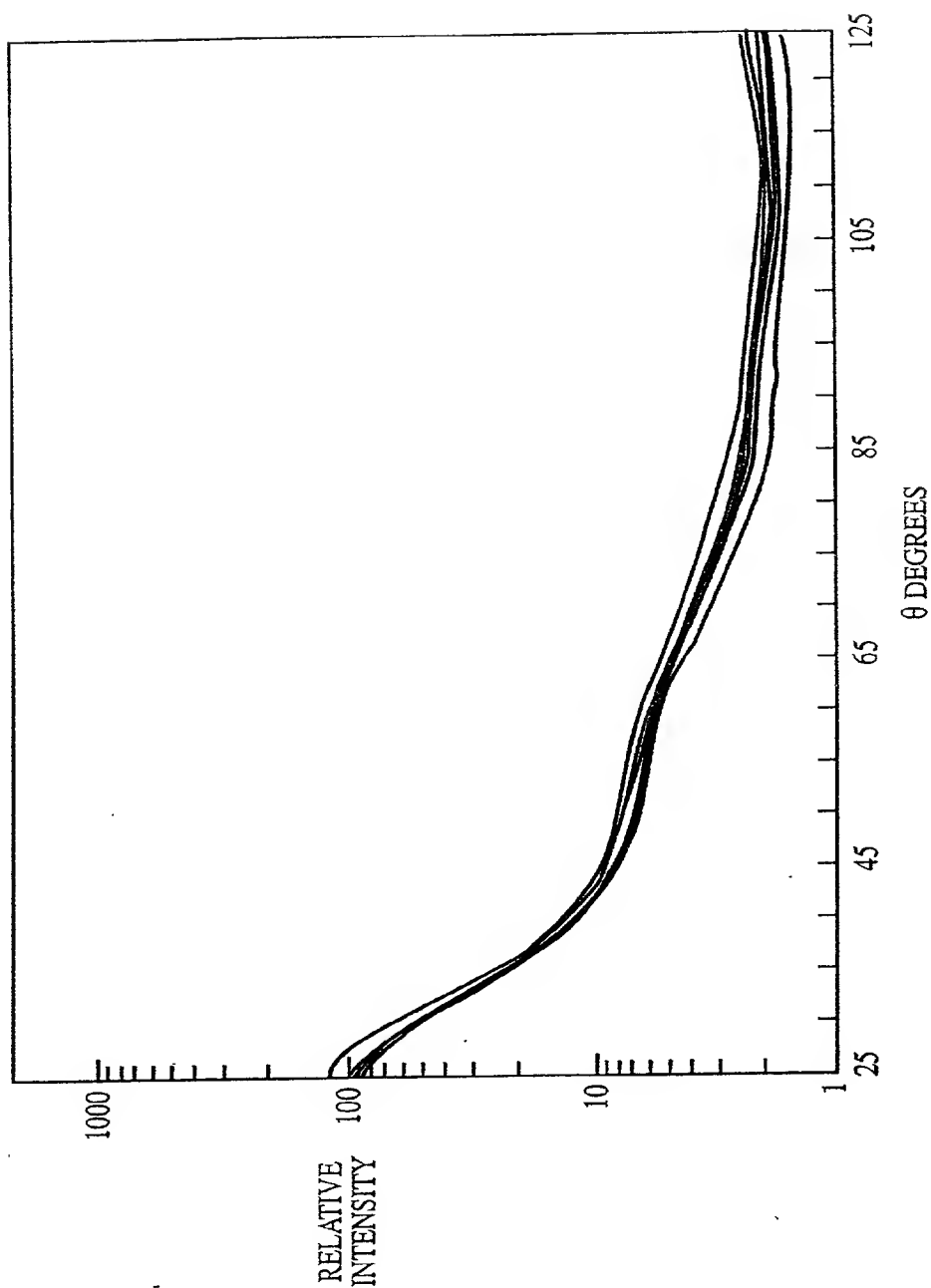


Fig. 6



ORIGINAL DOCUMENT

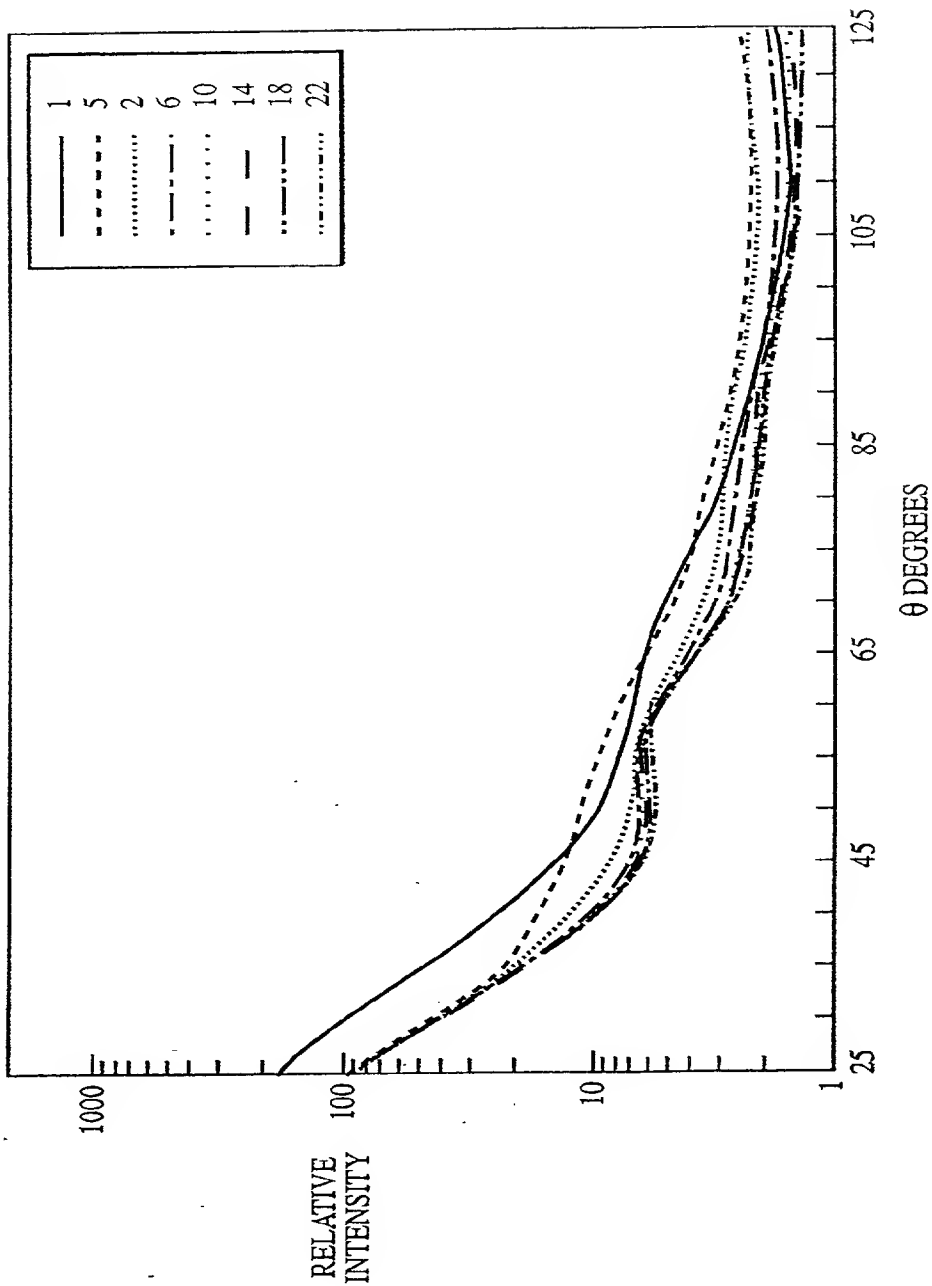


Fig. 7

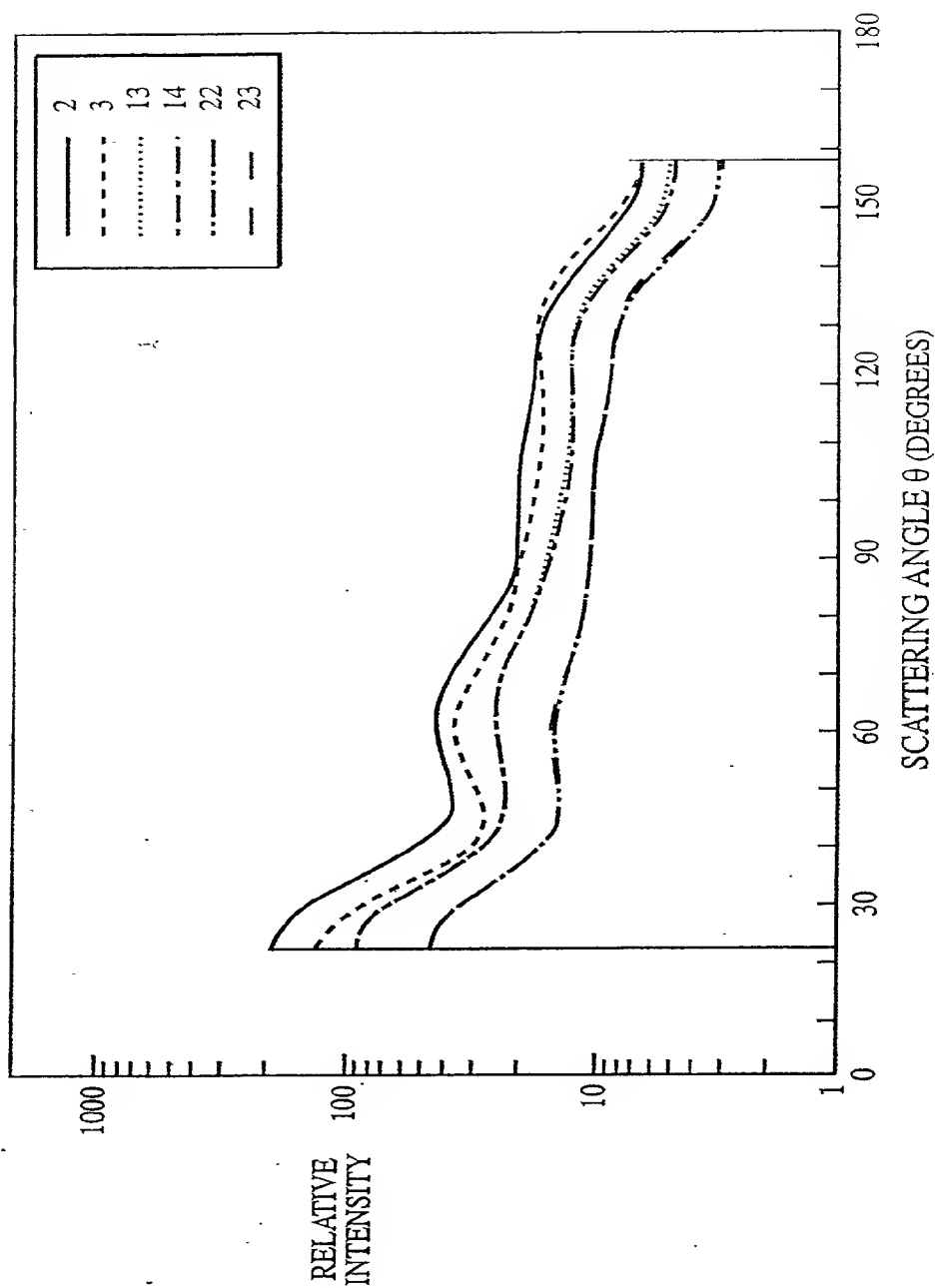
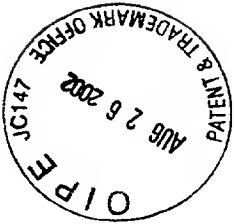


Fig. 8A





Patent & Trademark Office

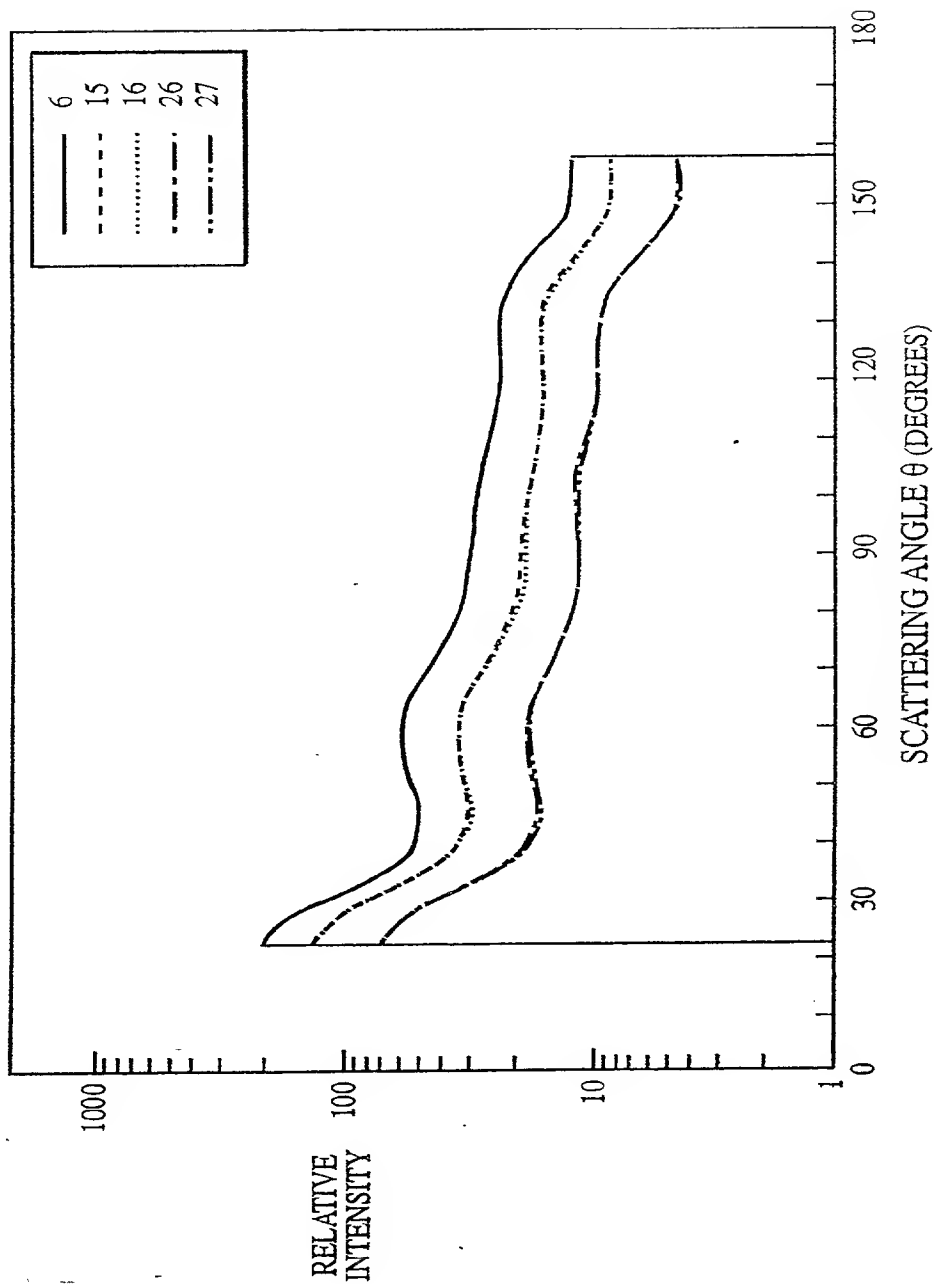


Fig. 8B

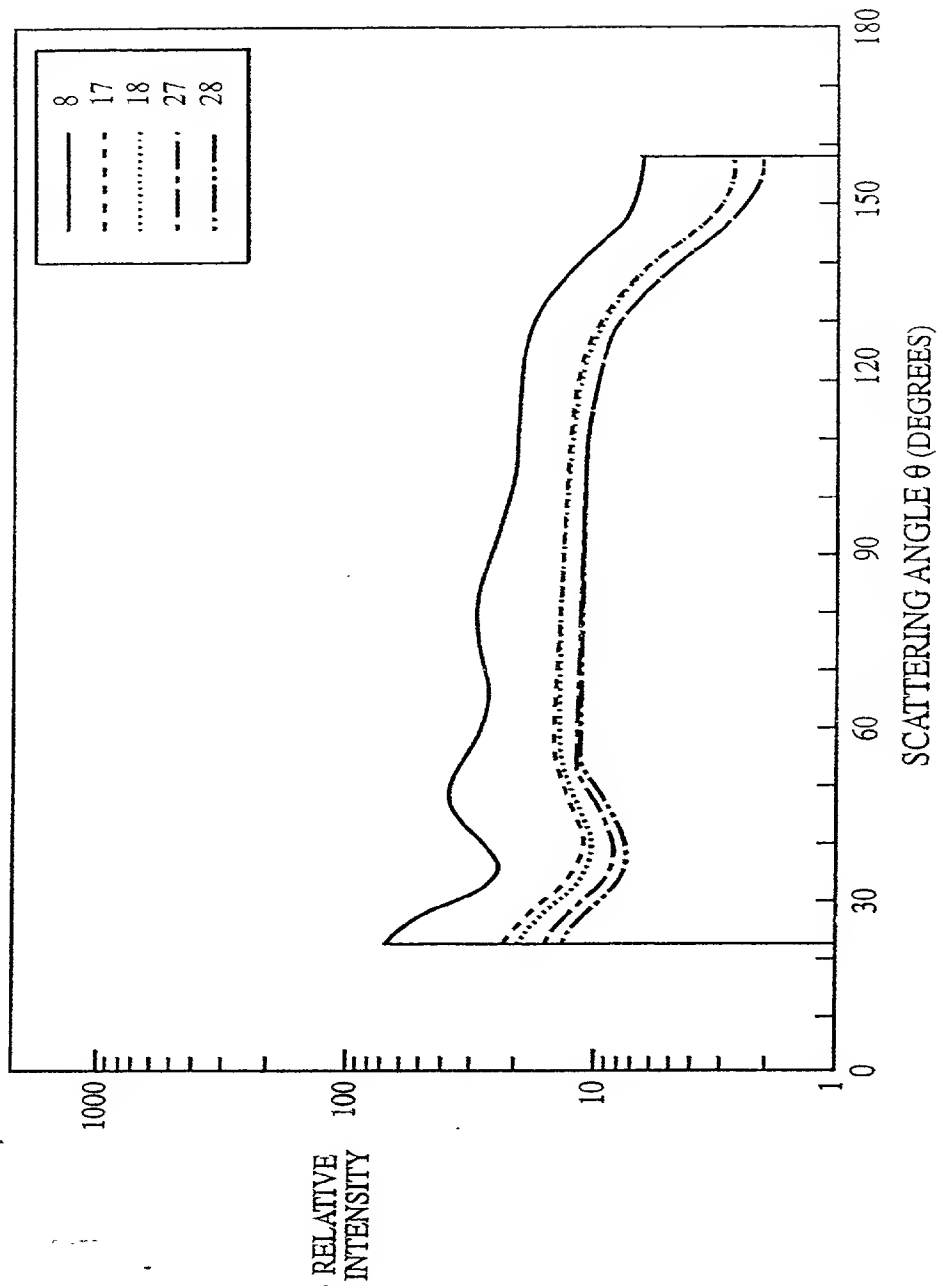


Fig. 8C



Patent 6,666,666

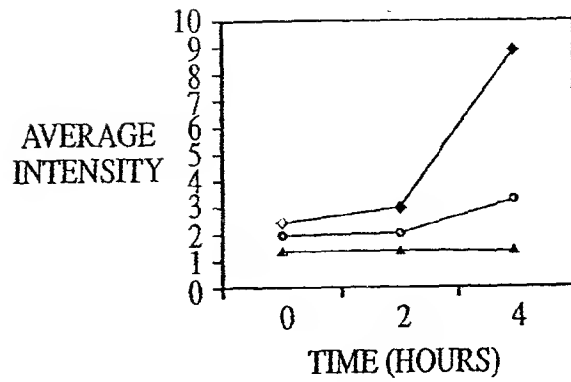


Fig. 9A

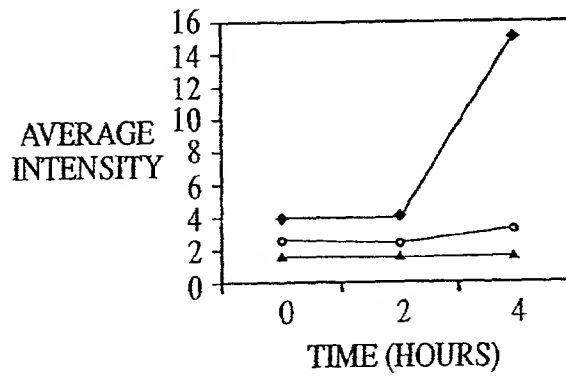


Fig. 9B

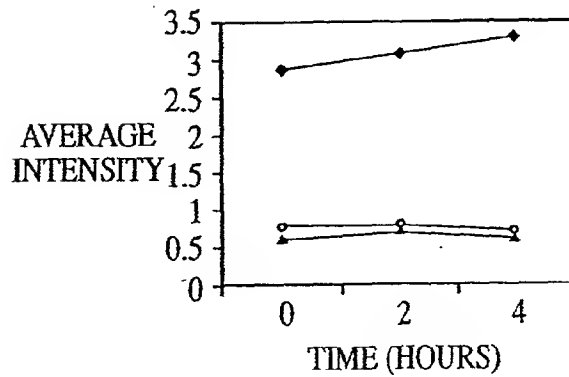
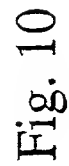
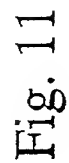


Fig. 9C





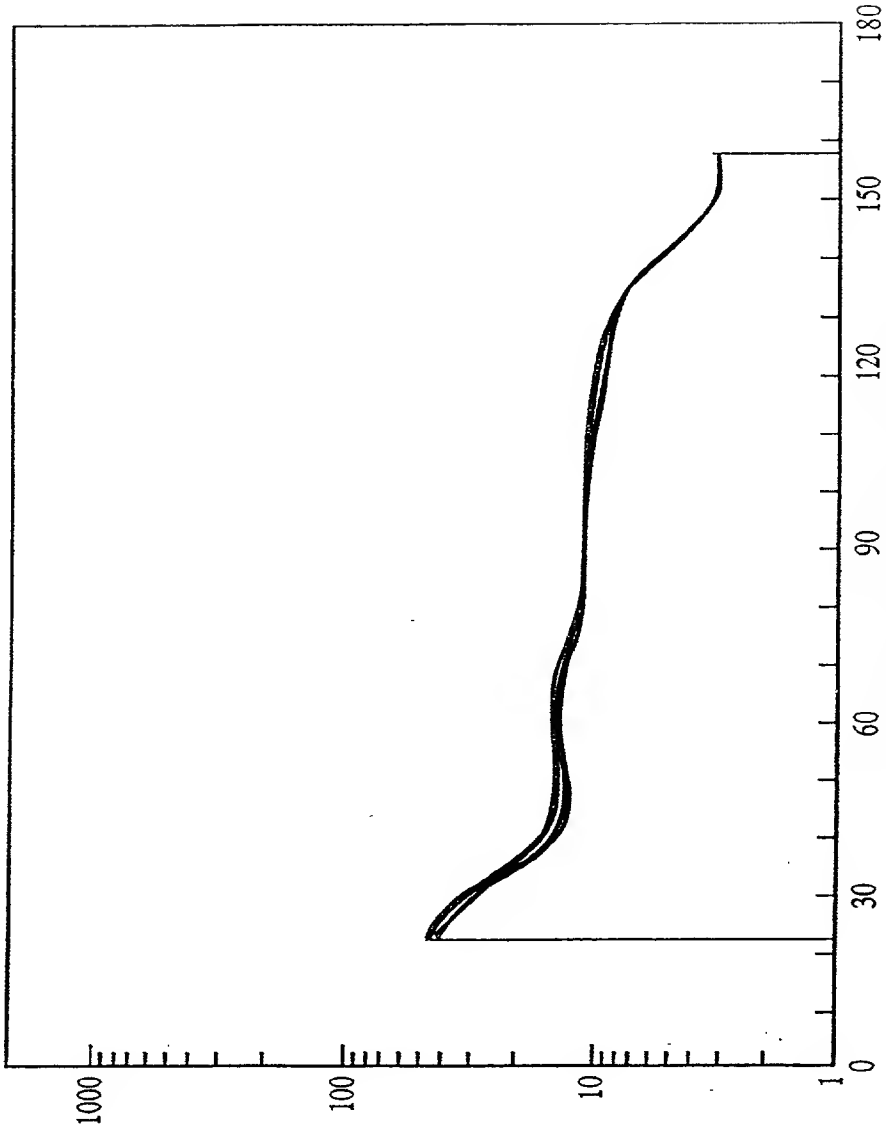
Indicator of Sterilization Inventors: Ira Cecil

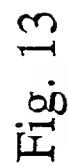


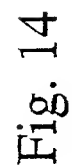
Felkner, et al. Appln. No.: 10/091,260  
Atty Docket No. 81-203 Cust. No. 000573

RELATIVE  
INTENSITYSCATTERING ANGLES  $\theta$  (DEGREES)

Fig. 12











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Replicates of ICF Samples

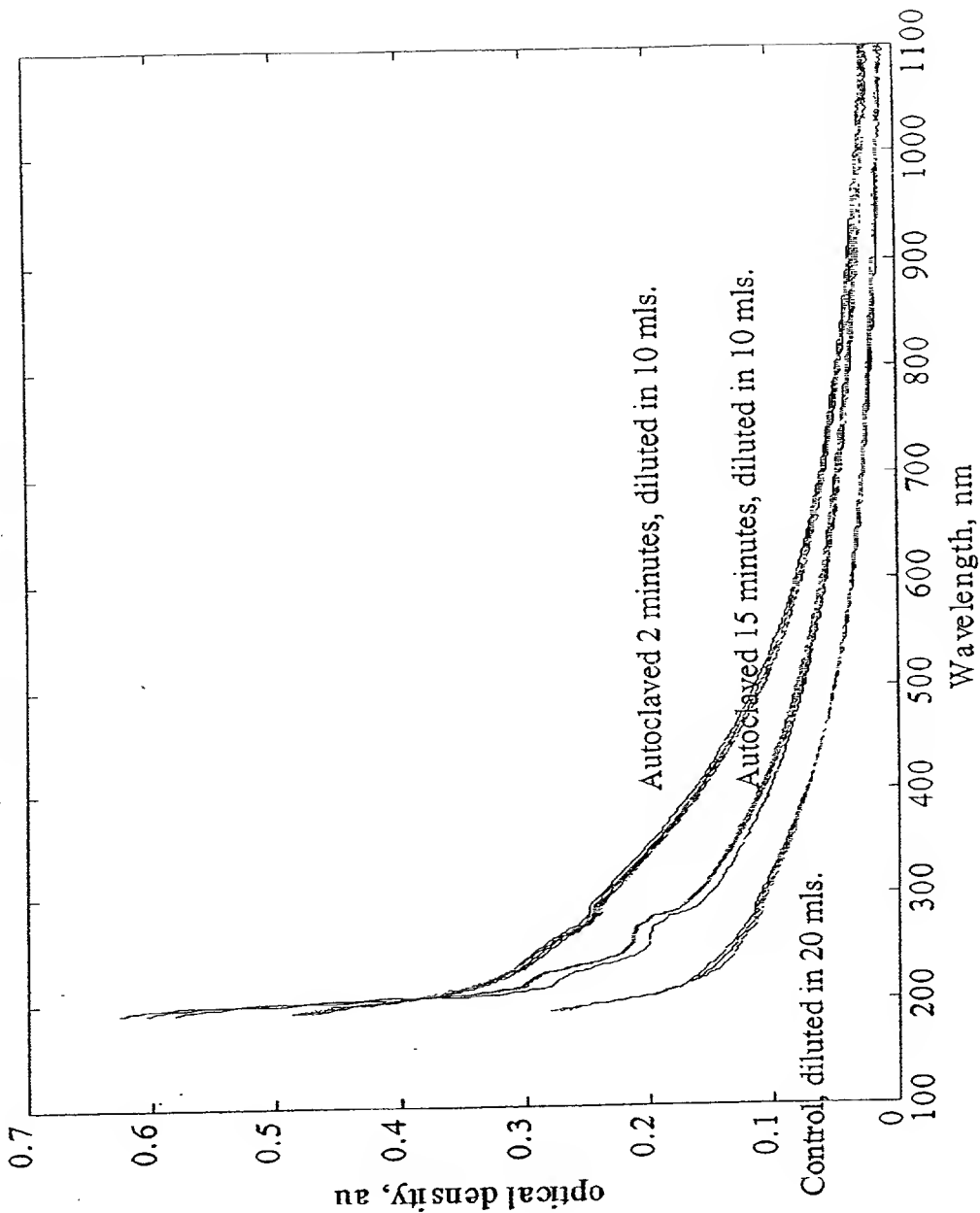


Fig. 15

RESULTS PROBLEM No: Time 2 hours

ESTIMATES FOR A SINGLE POPULATION

Mie Average Diameter (cm) = 2.570334E-04 +/- 3.302753E-05  
Concentration (g/mL) meas. = 2.028209E-06  
Concentration (g/mL) calc. = 2.028209E-06 +/- 2.261741E-07  
Particle No (#/mL) = 228110.500000

Residual sum of squares = 5.012901E-05  
Res. sum of squares (Norm) = 2.879399E-01  
Standard Dev. (Residuals) = 3.019001E-04  
Standard Dev. (Norm. Res) = 2.288071E-02

RESULTS PROBLEM No: Time 4 hours

ESTIMATES FOR A SINGLE POPULATION

Mie Average Diameter (cm) = 1.969644E-04 +/- 1.826982E-06  
Concentration (g/mL) meas. = 3.055250E-05  
Concentration (g/mL) calc. = 3.055250E-05 +/- 2.933861E-07  
Particle No (#/mL) = 7636334.000000

Residual sum of squares = 5.679470E-03  
Res. sum of squares (Norm) = 2.113989E-01  
Standard Dev. (Residuals) = 3.213458E-03  
Standard Dev. (Norm. Res) = 1.960514E-02

RESULTS PROBLEM No: Time 3 hours

ESTIMATES FOR A SINGLE POPULATION

Mie Average Diameter (cm) = 2.672413E-04 +/- 7.599205E-06  
Concentration (g/mL) meas. = 9.346907E-06  
Concentration (g/mL) calc. = 9.346907E-06 +/- 2.200983E-07  
Particle No (#/mL) = 933316.800000

Residual sum of squares = 2.789136E-03  
Res. sum of squares (Norm) = 7.187017E-01  
Standard Dev. (Residuals) = 2.251923E-03  
Standard Dev. (Norm. Res) = 3.614872E-02

RESULTS PROBLEM No: Time 5 hours

ESTIMATES FOR A SINGLE POPULATION

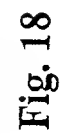
Mie Average Diameter (cm) = 1.405828E-04 +/- 1.859756E-06  
Concentration (g/mL) meas. = 2.712445E-05  
Concentration (g/mL) calc. = 2.712445E-05 +/- 4.164035E-07  
Particle No (#/mL) = 1.864516E+07

Residual sum of squares = 9.585535E-04  
Res. sum of squares (Norm) = 8.134952E-02  
Standard Dev. (Residuals) = 1.320161E-03  
Standard Dev. (Norm. Res) = 1.216175E-02

Fig. 16







THE UNIVERSITY OF CHICAGO

### Fractionation Curve of *B. subtilis* in 0.42% NaCl Solution

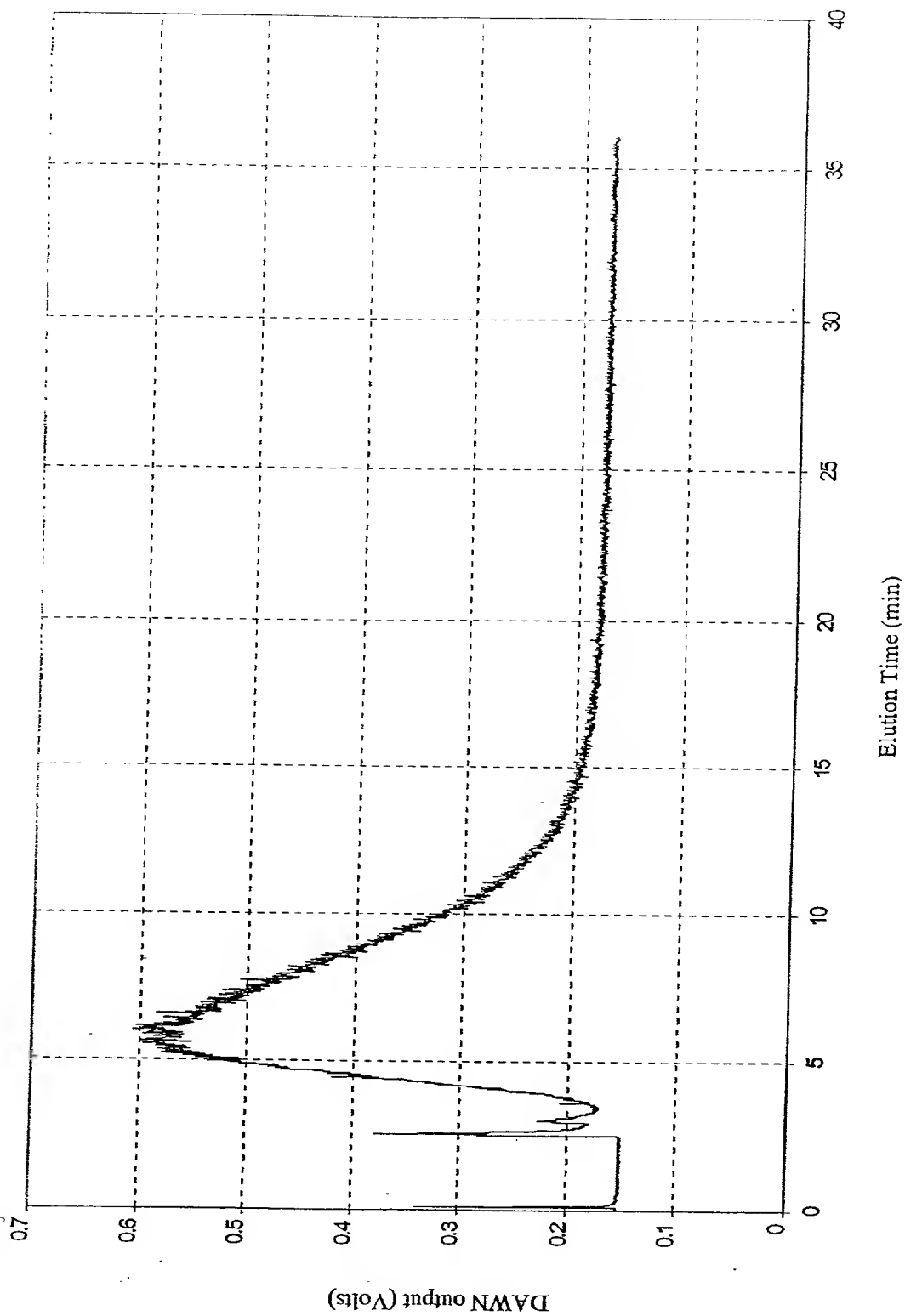
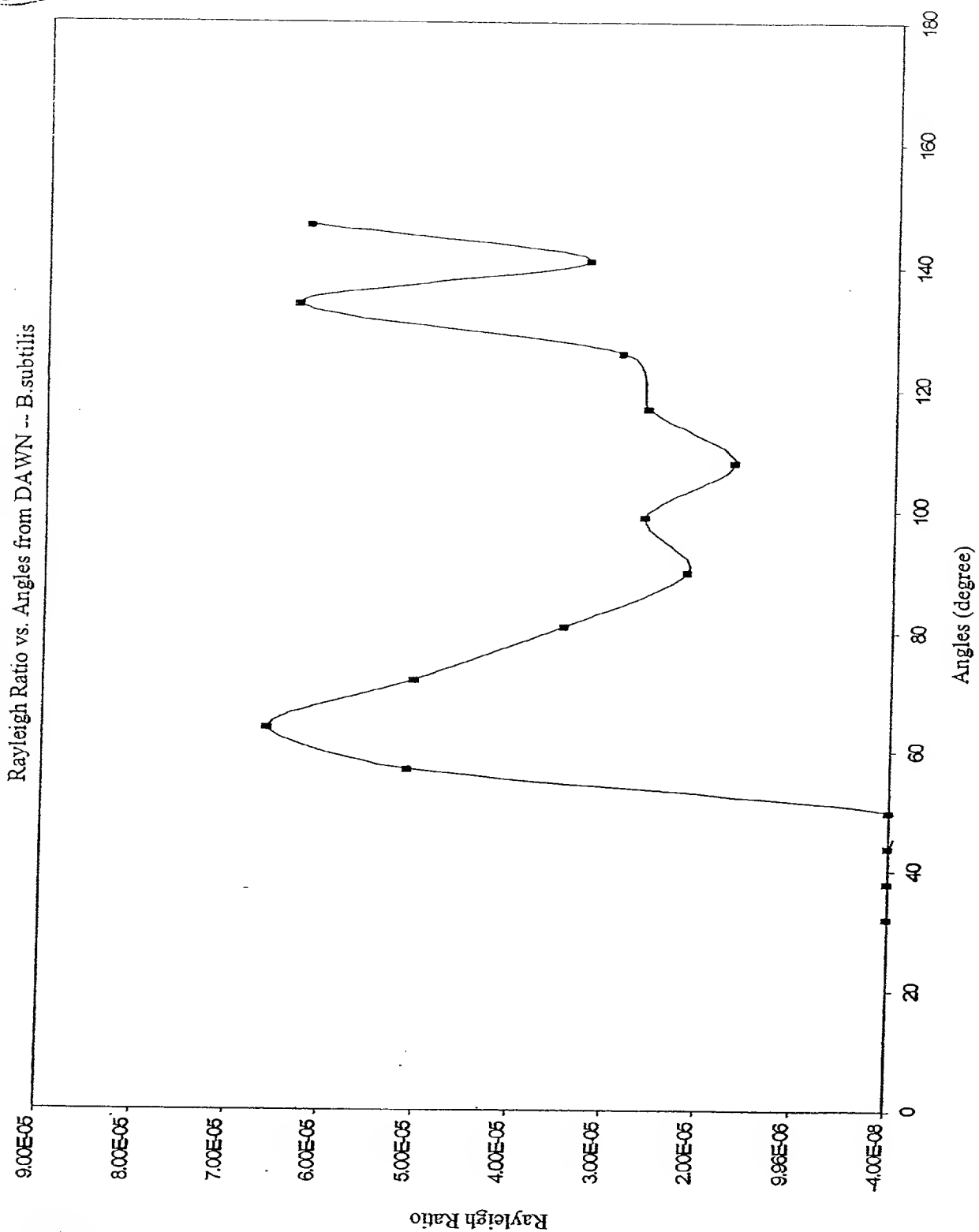


Fig. 19





2005000326001

Polar plot of *B. globigii*

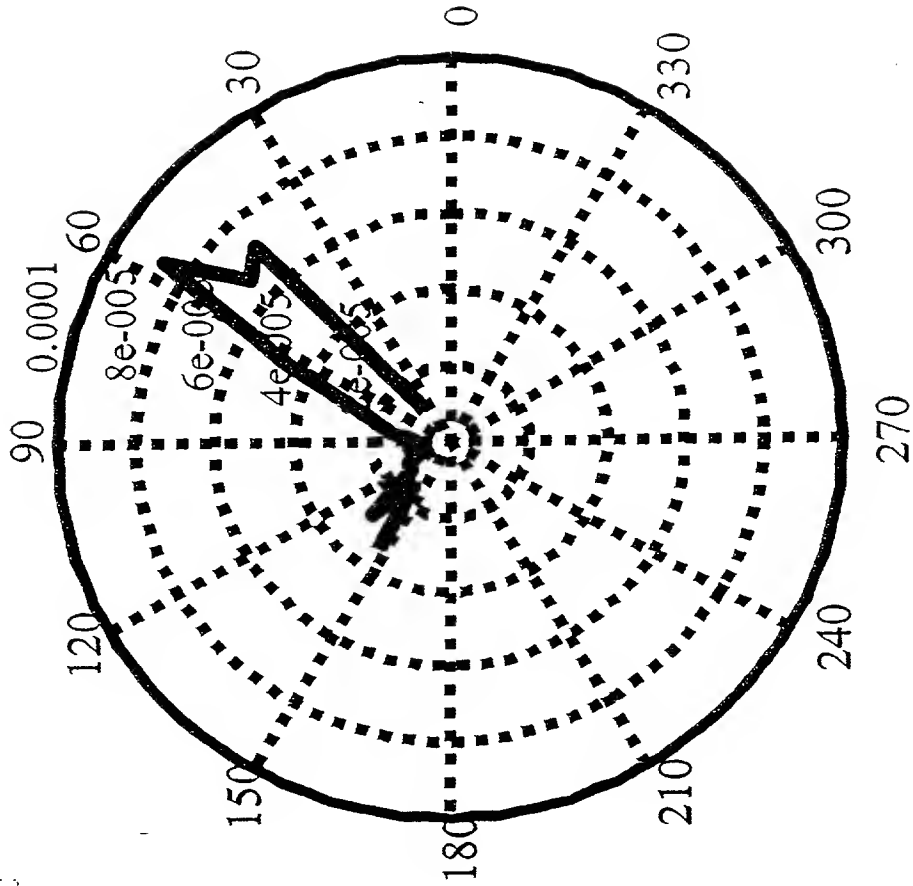
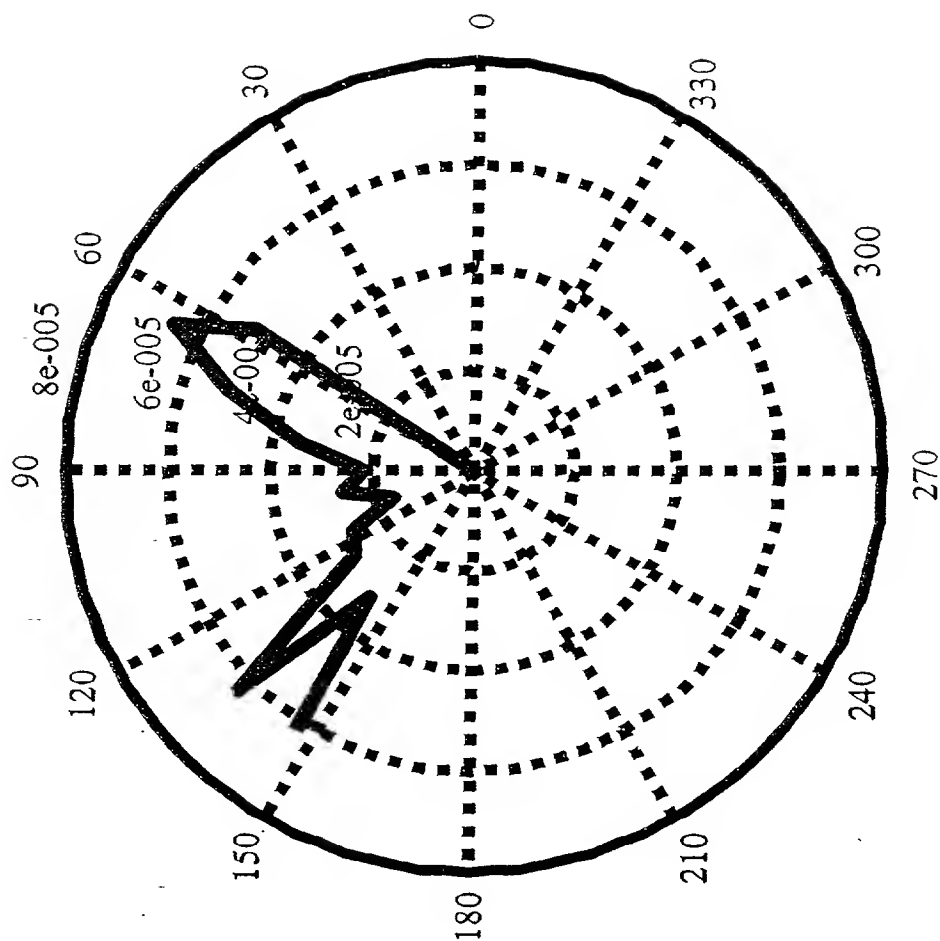


Fig. 21



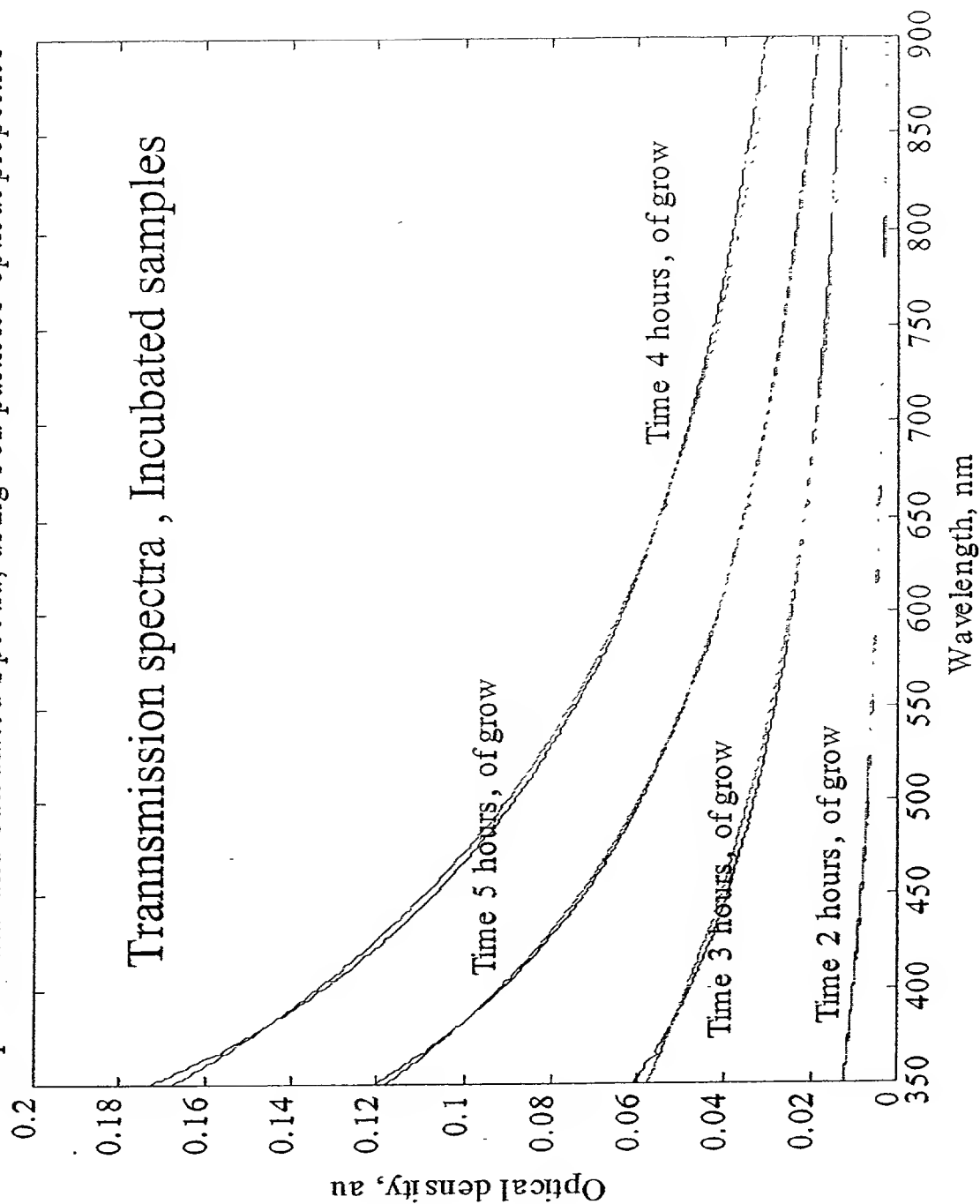
PATENT & TRADEMARK OFFICE  
AUG 26 2002  
011

[illegible]Polar plot of *B. subtilis*

**Fig. 22**



## Experimental and Calculated Spectra, using soft particles optical properties



**Fig. 23**